DYNAMICALLY VARIABLE FREQUENCY SELECTIVE SURFACE

ABSTRACT OF THE DISCLOSURE

Method for dynamically varying a frequency response of a frequency selective surface. The method can include controlling transmission of electromagnetic energy through a frequency selective surface by passing selected frequencies in a passband and blocking selected frequencies in a stop-band. The stop-band and the passband can be dynamically modified by controlling at least one of a position and a volume of a conductive fluid that forms a portion of the frequency selective surface. According to one aspect of the method, the conductive fluid can be selected to include gallium and indium alloyed with a material selected from the group consisting of tin, copper, zinc and bismuth.

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